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 SDIs in Caplus
 NEWS 23 May 27 Caplus super roles and document types searchable in REGISTRY
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 AND CURRENT DISCOVER FILE IS DATED 26 APRIL 2004
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* * * * * STN Columbus * * * * *

FILE 'HOME' ENTERED AT 11:50:03 ON 18 JUN 2004

=> drilling fluid and (formate or acetate)
 DRILLING IS NOT A RECOGNIZED COMMAND
 The previous command name entered was not recognized by the system.
 For a list of commands available to you in the current file, enter
 "HELP COMMANDS" at an arrow prompt (=>).

=> file caplus
 COST IN U.S. DOLLARS

SINCE FILE TOTAL
 ENTRY SESSION

FULL ESTIMATED COST

0.21

0.21

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FILE COVERS 1907 - 18 Jun 2004 VOL 140 ISS 26
FILE LAST UPDATED: 17 Jun 2004 (20040617/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> s drilling fluid and (formate or acetate)

27439 DRILLING
354200 FLUID
5774 DRILLING FLUID
(DRILLING(W) FLUID)
37528 FORMATE
470708 ACETATE

L1 133 DRILLING FLUID AND (FORMATE OR ACETATE)

=> s l1 and (oil based or water-in-oil or oil-in-water or invert)

679461 OIL
1625428 BASED
6076 OIL BASED
(OIL(W) BASED)
2137751 WATER
679461 OIL
21878 WATER-IN-OIL
(WATER(1W) OIL)
679461 OIL
2137751 WATER
30792 OIL-IN-WATER
(OIL(1W) WATER)
6393 INVERT

L2 16 L1 AND (OIL BASED OR WATER-IN-OIL OR OIL-IN-WATER OR INVERT)

=> d l2 1-16

L2 ANSWER 1 OF 16 CAPLUS COPYRIGHT 2004 ACS on STN

	Full Text	Citing References
AN	2004:142782	CAPLUS
DN	140:166507	
TI	Reduced-density drilling fluids containing glass, ceramic, or polymer hollow microspheres	
IN	Shinbach, Madeline P.; Nwabunma, Domasius; Chan, Hua T.; D'Souza, Andrew S.	
PA	3M Innovative Properties Company, USA	
SO	U.S. Pat. Appl. Publ., 14 pp. CODEN: USXXCO	
DT	Patent	
LA	English	

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 2004033905	A1	20040219	US 2002-218962	20020814
	WO 2004016707	A1	20040226	WO 2003-US17370	20030603
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, UZ, VC, VN, YU, ZA, ZM, ZW, AM, AZ, BY				
RW:	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
PRAI	US 2002-218962	A	20020814		

L2 ANSWER 2 OF 16 CAPLUS COPYRIGHT 2004 ACS on STN

Full Text Citing References

AN 2003:506467 CAPLUS
DN 140:218582
TI Production of ampholytic polyelectrolytes by oxidative hydrolysis of polyacrylamides prepared by emulsion polymerization
IN Orlyanskii, V. V.; Orlyanskii, M. V.; Fedoseev, S. A.
PA Obshchestvo s Ogranichennoi Otvetstvennost'yu Nauchno-Proizvodstvennoe Predpriyatie "KF", Russia
SO Russ., No pp. given
CODEN: RUXXE7
DT Patent
LA Russian

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	RU 2203906	C1	20030510	RU 2001-131847	20011126
PRAI	RU 2001-131847		20011126		

L2 ANSWER 3 OF 16 CAPLUS COPYRIGHT 2004 ACS on STN

Full Text Citing References

AN 2003:334751 CAPLUS
DN 139:365404
TI Production of anionic polyelectrolytes by radical emulsion polymerization
IN Orlyanskii, V. V.; Orlyanskii, M. V.; Fedoseev, S. A.
PA Obshchestvo S Ogranichennoi Otvetstvennost'yu Nauchno-Proizvodstvennoe Predpriyatie "KF", Russia
SO Russ., No pp. given
CODEN: RUXXE7
DT Patent
LA Russian

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	RU 2195464	C1	20021227	RU 2001-131843	20011126
PRAI	RU 2001-131843		20011126		

L2 ANSWER 4 OF 16 CAPLUS COPYRIGHT 2004 ACS on STN

Full Text Citing References

AN 2003:301155 CAPLUS
DN 138:323694
TI **Invert**-emulsion drilling fluids containing potassium **formate** and tall **oil-based** emulsifiers
IN Mackey, Rusty R.; Gatlin, Larry W.
PA Clearwater, Inc., USA

SO PCT Int. Appl., 17 pp.
 CODEN: PIXXD2
 DT Patent
 LA English
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2003031534	A1	20030417	WO 2002-US32213	20021009
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
	RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
	US 2003092580	A1	20030515	US 2002-267728	20021009
	GB 2395967	A1	20040609	GB 2004-2079	20021009
	NO 2003002569	A	20030807	NO 2003-2569	20030606
PRAI	US 2001-328607P	P	20011011		
	WO 2002-US32213	W	20021009		

RE.CNT 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L2 ANSWER 5 OF 16 CAPLUS COPYRIGHT 2004 ACS on STN

Full Text Citing References
 AN 2003:118233 CAPLUS
 DN 138:173105
 TI Shear-sensitive plugging fluids for plugging of fluid loss zones in petroleum wells and reservoirs
 IN Maberry, Jack; Garrison, Greg; Garnier, Andre
 PA Fr.
 SO U.S. Pat. Appl. Publ., 6 pp.
 CODEN: USXXCO
 DT Patent
 LA English
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 2003029616	A1	20030213	US 2002-172266	20020614
PRAI	US 2001-309538P	P	20010802		
	US 2001-334444P	P	20011129		

L2 ANSWER 6 OF 16 CAPLUS COPYRIGHT 2004 ACS on STN

Full Text Citing References
 AN 2002:793716 CAPLUS
 DN 137:313278
 TI High-molecular-weight amphiphilic surfactants as emulsifiers for water-in-oil emulsion drilling fluids fluid
 IN Palmgren, Odd; Teigen, Aslak; Obrestad, Torstein
 PA Norsk Hydro Asa, Norway
 SO PCT Int. Appl., 24 pp.
 CODEN: PIXXD2
 DT Patent
 LA English
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2002081590	A1	20021017	WO 2002-NO136	20020408
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR,				

LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH,
 PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ,
 UA, UG, US, UZ, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU,
 TJ, TM
 RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH,
 CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR,
 BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

NO 2001001787 A 20021010 NO 2001-1787 20010409
 PRAI NO 2001-1787 A 20010409
 RE.CNT 9 THERE ARE 9 CITED REFERENCES AVAILABLE FOR THIS RECORD
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L2 ANSWER 7 OF 16 CAPLUS COPYRIGHT 2004 ACS on STN

Full Citing
 Text References

AN 2002:605338 CAPLUS
 DN 138:139732
 TI Development of an **oil-based** gravel-pack carrier fluid
 AU Kelkar, S.; Parlar, M.; Price-Smith, C.; Hurst, G.; Brady, M.; Morris, L.
 CS Schlumberger, USA
 SO SPE International Symposium on Oilfield Chemistry, Conference Proceedings,
 Houston, TX, United States, Feb. 13-16, 2001 (2001), 10-17 Publisher:
 Society of Petroleum Engineers, Richardson, Tex.
 CODEN: 69CZJT
 DT Conference; (computer optical disk)
 LA English
 RE.CNT 15 THERE ARE 15 CITED REFERENCES AVAILABLE FOR THIS RECORD
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L2 ANSWER 8 OF 16 CAPLUS COPYRIGHT 2004 ACS on STN

Full Citing
 Text References

AN 2002:591557 CAPLUS
 DN 137:157016
 TI Additive for an **oil-based** inverted emulsion **drilling fluid**
 IN Mueller, Heinz; Burbach, Frank
 PA Cognis Deutschland G.m.b.H. & Co. K.-G., Germany
 SO Ger. Offen., 6 pp.
 CODEN: GWXXBX
 DT Patent
 LA German
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	DE 10104869	A1	20020808	DE 2001-10104869	20010203
	WO 2002062919	A1	20020815	WO 2002-EP772	20020125
	W: AU, BR, CA, MX, NO, US				
	RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR				
	EP 1358298	A1	20031105	EP 2002-714112	20020125
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI, CY, TR				
	BR 2002006858	A	20040113	BR 2002-6858	20020125
	US 2004058824	A1	20040325	US 2003-470037	20031001
PRAI	DE 2001-10104869	A	20010203		
	WO 2002-EP772	W	20020125		
OS	MARPAT 137:157016				

L2 ANSWER 9 OF 16 CAPLUS COPYRIGHT 2004 ACS on STN

Full Citing
 Text References

AN 2002:551498 CAPLUS
 DN 137:96094
 TI Method for reducing borehole erosion in shale formations
 IN Krieger, Darrell L.
 PA Halliburton Energy Services, Inc., USA

SO U.S., 6 pp.
CODEN: USXXAM
DT Patent
LA English
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 6422325	B1	20020723	US 2001-972366	20011005
	WO 2002068559	A1	20020906	WO 2001-US48960	20011218
	W: CA, NO				
	RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR				
	NO 2002006205	A	20021223	NO 2002-6205	20021223
PRAI	US 2001-972366	A	20011005		
	WO 2001-US48960	W	20011218		

RE.CNT 19 THERE ARE 19 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L2 ANSWER 10 OF 16 CAPLUS COPYRIGHT 2004 ACS on STN

Full Text Citing References

AN 1998:62218 CAPLUS
DN 128:142984
TI Solid-free wellbore fluid
IN Van Slyke, Donald C.
PA Union Oil Company, USA
SO U.S., 11 pp., Cont.-in-part of U.S. Ser. No. 55,510, abandoned.
CODEN: USXXAM
DT Patent
LA English
FAN.CNT 2

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 5710111	A	19980120	US 1994-251568	19940531
	US 5556832	A	19960917	US 1992-948509	19920921
	US 5696058	A	19971209	US 1995-440260	19950512
PRAI	US 1992-948509	A2	19920921		
	US 1993-55510	B2	19930430		

RE.CNT 51 THERE ARE 51 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L2 ANSWER 11 OF 16 CAPLUS COPYRIGHT 2004 ACS on STN

Full Text Citing References

AN 1996:307823 CAPLUS
DN 124:321200
TI Method of and system for flushing boreholes
IN Astleford, John
PA UK
SO PCT Int. Appl., 35 pp.
CODEN: PIXXD2
DT Patent
LA English
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9605408	A1	19960222	WO 1995-GB1936	19950816
	W: AM, AT, AU, BB, BG, BR, BY, CA, CH, CN, CZ, DE, DK, EE, ES, FI, GB, GE, HU, JP, KE, KG, KP, KR, KZ, LK, LR, LT, LU, LV, MD, MG, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SI, SK, TJ, TT, UA, US, UZ				
	RW: KE, MW, SD, SZ, UG, AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
	CA 2197477	AA	19960222	CA 1995-2197477	19950816
	AU 9532282	A1	19960307	AU 1995-32282	19950816

EP 776410 A1 19970604 EP 1995-928564 19950816
R: AT, DE, DK, FR, GB, IE, IT, NL
PRAI GB 1994-16586 19940817
WO 1995-GB1936 19950816

L2 ANSWER 12 OF 16 CAPLUS COPYRIGHT 2004 ACS on STN

Full Text Citing References

AN 1993:62909 CAPLUS
DN 118:62909
TI **Drilling fluid**
IN Elliott, Gregory Phillip
PA British Petroleum Co. PLC, UK
SO Eur. Pat. Appl., 7 pp.
CODEN: EPXXDW
DT Patent
LA English
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 495579	A2	19920722	EP 1992-300151	19920108
	EP 495579	A3	19930317		
	EP 495579	B1	19960228		
	R: BE, DE, ES, FR, GB, IT, NL				
	CA 2058856	AA	19920713	CA 1992-2058856	19920107
	CA 2058856	C	20030311		
	ES 2083674	T3	19960416	ES 1992-300151	19920108
	NO 9200121	A	19920713	NO 1992-121	19920109
PRAI	GB 1991-699	A	19910112		

L2 ANSWER 13 OF 16 CAPLUS COPYRIGHT 2004 ACS on STN

Full Text Citing References

AN 1991:586574 CAPLUS
DN 115:186574
TI Compositions for oil-base drilling fluids
IN Rines, Steven P.
PA M-1 Drilling Fluids Co., USA
SO Can. Pat. Appl., 40 pp.
CODEN: CPXXEB
DT Patent
LA English
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	CA 2027504	AA	19910514	CA 1990-2027504	19901012
	US 935	H1	19910702	US 1989-435072	19891113
PRAI	US 1989-435072		19891113		

L2 ANSWER 14 OF 16 CAPLUS COPYRIGHT 2004 ACS on STN

Full Text Citing References

AN 1991:188877 CAPLUS
DN 114:188877
TI Use of selected lower carboxylic acid ester oils in drilling fluids
IN Mueller, Heinz; Herold, Claus Peter; Von Tapavicza, Stephen; Neuss, Michael; Burbach, Frank
PA Henkel K.-G.a.A., Germany; Cognis Deutschland GmbH & Co. KG
SO Eur. Pat. Appl., 14 pp.
CODEN: EPXXDW
DT Patent
LA German
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 386638	A1	19900912	EP 1990-104027	19900301
	EP 386638	B1	19930317		

EP 386638	B2	20031203		
R: GR				
DE 3907391	A1	19900913	DE 1989-3907391	19890308
CA 2047697	AA	19900909	CA 1990-2047697	19900301
CA 2047697	C	20010731		
WO 9010682	A1	19900920	WO 1990-EP342	19900301
W: AU, BR, CA, JP, NO, US				
RW: AT, BE, CH, DE, DK, ES, FR, GB, IT, LU, NL, SE				
AU 9051823	A1	19901009	AU 1990-51823	19900301
AU 624926	B2	19920625		
BR 9007192	A	19911210	BR 1990-7192	19900301
EP 462160	A1	19911227	EP 1990-904323	19900301
R: AT, BE, CH, DE, DK, ES, FR, GB, IT, LI, LU, NL, SE				
JP 04503965	T2	19920716	JP 1990-504168	19900301
JP 2834319	B2	19981209		
AT 87020	E	19930415	AT 1990-104027	19900301
ES 2042101	T3	19931201	ES 1990-104027	19900301
ZA 9001759	A	19901128	ZA 1990-1759	19900307
NO 9103239	A	19910819	NO 1991-3239	19910819
NO 172501	B	19930419		
NO 9300158	A	19910819	NO 1993-158	19930118
US 5318954	A	19940607	US 1993-84783	19930629
PRAI DE 1989-3907391	A	19890308		
EP 1990-104027	A	19900301		
WO 1990-EP342	A	19900301		
NO 1991-3239	A1	19910819		
US 1991-752694	B1	19910906		

L2 ANSWER 15 OF 16 CAPLUS COPYRIGHT 2004 ACS on STN

Full Text	Citing References
AN	1978:445985 CAPLUS
DN	89:45985
TI	Structural-rheological properties of petroleum clay suspensions
AU	Miskarli, A. K.; Abduragimova, L. A.; Musaev, G. M.
CS	Inst. Neorg. Fiz. Khim., Baku, USSR
SO	Azerbaidzhanskii Khimicheskii Zhurnal (1977), (5), 78-83
	CODEN: AZKZAU; ISSN: 0005-2531
DT	Journal
LA	Russian

L2 ANSWER 16 OF 16 CAPLUS COPYRIGHT 2004 ACS on STN

Full Text	Citing References
AN	1975:518403 CAPLUS
DN	83:118403
TI	Well completion and workover fluid
IN	Fischer, Paul W.; Pye, David S.; Gallus, Julius P.
PA	Union Oil Co., USA
SO	U.S., 7 pp.
	CODEN: USXXAM
DT	Patent
LA	English
FAN.CNT	5

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 3882029	A	19750506	US 1972-293388	19720929
	CA 990059	A1	19760601	CA 1973-172444	19730528
	US 3979304	A	19760907	US 1974-525366	19741120
	US 3979305	A	19760907	US 1974-531603	19741211
	US 3989632	A	19761102	US 1975-539686	19750109
PRAI	US 1972-293388		19720929		
	US 1972-293389		19720929		

L2 ANSWER 10 OF 16 CAPLUS COPYRIGHT 2004 ACS on STN

Citing
References

AB Solid-free, essentially all-oil and **invert** emulsion wellbore fluids are employed in well drilling, completion, and workover operations. Techniques for remediating dense arom. solvents wellbore fluids entail removal and/or dissoln. of particulate matter.

L2 ANSWER 11 OF 16 CAPLUS COPYRIGHT 2004 ACS on STN

Citing
References

AB A system for flushing boreholes during drilling, includes a flushing circuit comprising a reservoir contg. a flushing liq. having sufficient d. to oppose the formation pressure of fluids in the geol. strata through which the borehole is drilled and sufficient viscosity to entrain detritus particles from the drilling operation, pumps and appropriate pipelines for circulating the flushing liq. from the reservoir to the borehole, for receiving the return flow from the borehole and for directing a major proportion of the return flow from the borehole to centrifuges of the system capable of sepg. detritus contained in the flushing liq. from the return flow, the cleansed flow from the centrifuge and any return flow bypassing the centrifuge, being returned to the reservoir for reconditioning and recycling to the borehole. A method of flushing a borehole during drilling using the above system is also described.

L2 ANSWER 12 OF 16 CAPLUS COPYRIGHT 2004 ACS on STN

Citing
References

AB The water-based **drilling fluid** contains a K salt, e.g., KCl, and a polyalkylene glycol having the formula $R_1-(CH_2-C(R)H-O)_n-H$ ($R = H, Me$; $R_1 = H, C_{1-4}$ alkyl; $n = 4-200$). In the case of tetra- and higher-mol. wt. polyalkylene glycols, there is a synergistic clay stabilizing effect between these compds. and the K salt. The water-based drilling fluids have thermal stability, lubricity, and shale inhibition close to that of conventional **oil-based** drilling fluids and are environmentally compatible.

L2 ANSWER 13 OF 16 CAPLUS COPYRIGHT 2004 ACS on STN

Citing
References

AB The **drilling fluid** comprises a continuous oil phase and a dispersed phase of the aq. soln. contg. nonhalide salts, e.g., KOAc, $Ca(OAc)_2$, and Na propionate, addnl. with emulsifiers, wetting agents, and other additives for improving rheol. properties and stability. The fluid is more compatible with environmentally acceptable land disposal methods than conventional fluids. Thus, an Escaid-90 base oil 0.73 bbl, brine 0.19 bbl, and KOAc soln. 3.00 wt.% were mixed with VersaMul emulsifier 1.02, VersaCoat emulsifier 1.54, and VG-69 gelling agent 6.00 ppb to obtain a formulated **drilling fluid** with excellent rheol. properties under various conditions.

L2 ANSWER 14 OF 16 CAPLUS COPYRIGHT 2004 ACS on STN

Citing
References

AB Esters, which are flowable at room temp. and have flash point $>80^\circ$, from C1-5-monocarboxylic acid and 1- and/or multifunctional alcs., e.g., isotridecyl **acetate**, are used as oil phase or components of the oil phase for **invert** drilling fluids.

L2 ANSWER 15 OF 16 CAPLUS COPYRIGHT 2004 ACS on STN

Citing
References

AB Kaolinite and bentonite suspensions in petroleum contg. a cationic surfactant (octadecylamine **acetate** [2190-04-7]) and anionic surfactants (synthetic C18-21 fatty acids, Ca salts of acidic petroleum residues) were studied in relation to their use as drilling fluids. **Invert** emulsions, which were obtained by addn. of H_2O to the petroleum suspensions, were

also studied. The structural and rheol. properties of the petroleum suspensions and the **invert** emulsions were similar and are given.

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**Citing
References**

AB The **drilling fluid** is an aq. dispersion contg. salt, chrome lignite, hydroxyethyl cellulose [9004-62-0], xanthan gum [11138-66-2], and a dispersion of finely divided, slowly **oil**-soluble, **water**-insoluble solid particles. The particles consist of a homogeneous solid soln. of wax, an oil soluble glyceryl or sorbitan ester of a fatty acid, a water dispersible polyethylene glycol ester of a fatty acid, an ethylene-vinyl **acetate** copolymer [24937-78-8], and a fatty alcohol. The fluid prevents reduction in permeability.

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